1.53(b) Continuation of Serial No.: 09/951,501 Attorney Docket No.: 1607.1001CIP/C

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Applicat	on of:						
PRAKASH KHATRI							
Application No.:		Group Art Unit:					
Filed: Concurrently	herewith	Examiner:					
	IAL INTERFACE MATERIAL						
	INFORMATION D	DISCLOSURE STATEMENT					
Commissioner for P PO Box 1450 Alexandria, VA 223							
Sir:  In accordan information which the subject applicate that the subject applicate the subject a	In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application It is requested that the Examiner make this information of record if it is deemed material to the examination of						
1. Enclosures	accompanying this Information	Disclosure Statement are:					
1a.	PCT International Search Re English language translation non-English language publication Explanations of Relevancy of concise explanation of each	(complete or relevant portion(s)) attached to ode.  ation.  f References (ATTACHMENT 1(e), hereto) for providing a					
2a.	(Check either Item Within three months of the fi Prosecution Application und Within three months of the d international application.	Office Action on the merits; or Office Action after the filing of a Request for Continued					

1.53(b) Continuation of Serial No.: 09/951,501 Attorney Docket No.: 1607.1001CIP/C This Information Disclosure Statement is filed under 37 CFR § 1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND (Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months) The §1.97(e) Statement in Item 5 below is applicable; OR 3a. 🗍 The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is: 3b. [ ] enclosed. to be charged to Deposit Account No. 19-3935. This Information Disclosure Statement is filed under 37 CFR §1.97(d) after the period specified in 4.  $\Gamma$ paragraph 3 above, but on or before payment of the Issue Fee, AND The § 1.97(e) Statement in Item 5 below is applicable; AND The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is: 4b. enclosed. to be charged to Deposit Account No. 19-3935.  $\Box$ Statement under § 1.97(e) (applicable if Item 3a or Item 4a is checked) 5. (Check either Item 5a or 5b) In accordance with 37 CFR § 1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication 5a. □ from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. In accordance with 37 CFR § 1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign 5b. patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. This is a continuation/divisional/continuation-in-part application under 37 CFR § 1.53(b).  $\boxtimes$ 6. (Check appropriate Items 6a and/or 6b) Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No. 09/951,501, filed on September 14, 2001, and which is 6a. 🖂 relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, have been omitted pursuant to 37 CFR § 1.98(d). Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No. \_\_, filed on \_\_, and which is relied on for an 6b. □ earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith. This is a continuation/divisional application under 37 CFR § 1.53(d) or a Request for Continued 7. Examination under 37 CFR 1.114. (Check either Item 7a or 7b) The Issue Fee has not been paid.

	7b. 🗀	1.53(b) Continuation of Serial No.: 09/951,501 Attorney Docket No.: 1607.1001CIP/C  A Petition to Withdraw from issue under 37 CFR § 1.313(c) is filed concurrently herewith or has been granted. A continuation/divisional application under 37 CFR § 1.53(d) or a Request for Continued Examination under 37 CFR 1.114, after payment of the Issue Fee, is proper in accordance with 37 CFR § 1.53(d)(1)(ii) or 37 CFR 1.114(a), respectively.
8.	☐ This is a	Supplemental Information Disclosure Statement.
•	_	(Check either Item 8a or 8b)
	8a. 🗌	This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS
	8b. 🗌	can be considered as if properly filed on  This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR § 1.97 and 1.98, mailed
9.	In accorda	nce with 37 CFR § 1.98, a concise explanation of what is presently understood to be the of each non-English language publication is:  (Check appropriate Items 9a, 9b, 9c and/or 9d)
	9a. 🗌	satisfied because all non-English language publications were cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, 8th Ed.)
	9b.	set forth in the application. satisfied because an English language translation (complete or relevant portion(s)) is attached to each non-English language publication.
	9d. 🗌	enclosed as Attachment 1(e), hereto.
10		ion is made that the information cited in this Statement is, or is considered to be, material to y nor a representation that a search has been made (other than search report(s) from a t foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ d (h).

1.53(b) Continuation of Serial No.: 09/951,501 Attorney Docket No.: 1607.1001CIP/C

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Dated: \_

1201 New York Ave., N.W., Suite 700

Washington, D.C. 20005 Telephone: (202) 434-1500 Facsimile: (202) 434-1501 William F. Herbert

Registration No. 31,024

1.53(b) Continuation of Serial No.: 09/951,501 Attorney Docket No.: 1607.1001CIP/C

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

Sheet 1 of 3

ATTORNEY DOCKET NO.

1607.1001 CIP/C

FIRST NAMED INVENTOR

Prakash Khatri

FILING DATE

July 3, 2003

### U.S. PATENT DOCUMENTS

			U.S. PA	TENT DOCUMENTS	<del></del> _	SUB-	FILING
*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	CLASS	DATE
	AA	3,669,884	6/13/72	Wright	252	36	
	AB	4,738,737	4/19/88	Runde et al.	156	91	
	AC	4,803,100	2/7/89	Ameen et al.	427	387	
	AD	5,167,851	12/1/92	Jamison et al.	252	74	
	AE	5,194,480	3/16/93	Block et al.			
	AF	5,250,209	10/5/93	Jamison et al.	252	74	
	AG	5,298,791	3/29/94	Liberty et al.	257	707	
	АН	5,904,796	5/18/99	Freuler et al.	156	278	
	AI_	6,049,458	4/11/00	Lee et al.	361	705	
	AJ	6,054,198	4/25/00	Bunyan et al.	428	40.5	
	AK	6,059,116	5/9/00	Hinshaw et al.	206	714	<u> </u>
	AL	6,114,429	9/5/00	Yamada, et al.	524	432	
	АМ	6,143,076	11/7/00	Rasmussen, et al.	118	411	
	AN	6,174,841	1/01	Yamada et al.	508	172	<u> </u>
	AO	6,255,257	7/01	Yamada et al.	508	172	<u> </u>
	AP	6,286,212	9/01	Easton	29	890.03	<u> </u>
	AQ	6,475,962	11/02	   Khatri	508	161	

#### 1.53(b) Continuation of Serial No.: 09/951,501 ATTORNEY DOCKET NO.: 1607.1001CIP/C

### Sheet <u>2</u> of <u>3</u>

#### **FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSL YES	ATION NO
	AR	WO/00/36893	6/22/00	WIPO				
	AS	EP 0906945	4/7/99	EPC				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

JINEK KE	FEREN	CES (Including Author, Title, Date, Pertinent Pages, Etc.)  Advanced Thermal Interface Material: 'Dry-To-The-Touch' Thermal Grease by Khatri and
	AT	Ziemski, March, 2001.
	AU	"Sprayable Thermal Grease Dramatically Reduces Labor While Offering Other Unique Advantages" by Khatri and Ziemski, 1999.
	AV	Article entitled, "Thermal Isolators", PCIM, April 1999 (pp. 57-61)
	AW	Chomerics Technical Bulletin 69, "CHO-TERM T500", 10/99 (2pgs)
	AX	Power Devices, Inc. "Powerstrate" Advertisement (1 pg.), date unknown
	AY	Article entitled, "Differential Phase Change Thermal Interface Materials", Technological Horizons (2 pgs.), date unkown
	AZ	Article entitled "Thermal Gap Fillers," PCIM, September 1999 (pp. 24-25, 27)
	ВА	Article entitled "Navigating the Maze of Thermal Interface Materials," Electronic Product Supplement, (http://www.electronicsproducts.com) Fall, 1999 (5 pp.)
	ВВ	Article entitled "Thermal Resistance of Interface Materials as a Function of Pressure," Latham, (2 pp.), ( <a href="http://www.electronics-cooling.com/Resources/EC Articles">http://www.electronics-cooling.com/Resources/EC Articles</a> /SEP96/sep96_tb.htm).
	ВС	Wakefield Engineering advertisement "Thermal Compounds, Adhesives, Interface Materials, Hardware, Installation Tools (1 pg.), believed dated 1997 or before.
	BD	Bergquist Company Brochure "Sil-Pad Design Guide" 1997-1998 (1 pg.)
	BE	Chomerics Company (Division of Parker-Hannifin) Advertisement, (1 pg.), from Electronics Cooling, Vol. 7, No. 1, February 2001
	BF	Fujipoly Company advertisement from PCIM, January 2000, page 14
	BG	MHW brochure regarding Keratherm® (2 pp.), February 1999
	ВН	MHW International Corp. advertisment from <u>Electronics Cooling</u> , Vol. 7, No. 1, February 2001, page 13
	ВІ	W.L. Gore & Assoc. advertisement (1 pg.) from Electronic Packaging and Production, June 2001
	BJ	Emerson & Cuming (division of National Starch and Chemical Company), advertisement (1 pg.)
	ВК	Honeywell advertisement (1 pg.) from Electronics Cooling, Vol. 7, No. 1, February 2001
	1	

# 1.53(b) Continuation of Serial No.: 09/951,501 ATTORNEY DOCKET NO.: 1607.1001CIP/C

SHEET 3 OF 3

"Electrolube's Unique Heat Transfer Compound Aerosol Optimises Board Thermal
Performance," July 28, 2000 website pages (5 pp.)
AOS brochure describing thermal greases.
Article entitled "Attaching Heat Sinks to Components," Electronic Packaging & Production, pp. 42-46, July 1997
Article entitled "Thermal Interface Materials," deSorgo et al., found at <a href="http://www.cooling-electronics.com/Resources/EC">http://www.cooling-electronics.com/Resources/EC</a> Articles/SEP96/sep96 01.htm (6 pp.)
Article entitled "Thermal Management Materials and Designs," Electronic Packaging and Production, October 2000 (pgs. 50-57).
Thermalloy Company Press Release (1 pg.), December 18, 1996.
Article entitled "Cooling Technologies - Work With Microprocessors Points the Way to Thermal Management Improvements for Power Semiconductors," PCIM, May 1999 (6 pp.)
Article entitled "Test Methods for Characterizing the Thermal Transmission Properties of Phase-change Thermal Interface Materials," ( <a href="http://www.electronics-cooling.com/html1/1999">http://www.electronics-cooling.com/html1/1999</a> may article1.html), May 1999 (9 pp.)
Brochure for Thermagon Company (5 pp), ©1997.
Brochure for Orcus, Inc., (3 pp.), ©1998.
Brochure for Bergquist Company (5 pp.), ©1998.
Advertisement for Bergquist Company "Thermal Performance you must see to believe," (1 pg.), undated
Brochure for Power Devices Company (11 pp.), ©1996
Brochure for Chomerics Company (6 pp.), October 1999
Advertisement for Chomerics Company's "Therm-A-Gap" Gap Filling Materials, (1 pg.), October 1999
Advertisement for "GAP PAD VO," (1 pg.), undated
Advertisement for Fujipoly Company's "SARCON Thermal Management Components," (1 pg.), undated.
Advertisement for Fujipoly Company's "SARCON Heat Sink Gel Pads," (1 pg.), undated
Abstract regarding WO 0036893, entitled, "Method of Applying a Phase-Change Thermal Interface Material" published June 22, 2000 (1 pg.)